

AMENDMENTS TO THE CLAIMS

1-3. (Canceled)

4. (Currently Amended) A tomogram creating method, comprising the following steps:

acquiring [[a]] first radiation signals, while a body to be examined ceases breathing, with respect to radiation transmitted through the body;

a first structural tomogram creating step for creating data to be used for constructing a first structural tomogram, based on said first radiation signals;

acquiring [[a]] second radiation signals, while the body to be examined is breathing, with respect to radiation transmitted through the body;

a second structural tomogram creating step for creating data to be used for constructing a second structural tomogram, based on said second radiation signals;

a correction information creating step for creating correction information to be used for correcting image blurring of said second structural tomogram with respect to said first structural tomogram, based on the data to be used for constructing said first and second structural tomograms;

acquiring [[a]] third radiation signals, while the body to be examined is breathing, with respect to radiation emitted from the body to be examined due to a radioactive medical agent; and

a functional tomogram creating step of [[for]] creating data to be used for constructing a functional tomogram, based on said third radiation signals and the correction information.

5. (Currently Amended) The tomogram creating method according to claim 4, wherein the first radiation signals and the second radiation signals are detect signals

outputted from discrete radiation examining apparatuses each of which detects the radiation emitted from a radiation source and transmitted through the body.

6. (Currently Amended) The tomogram creating method according to claim 4, wherein the second radiation signals and the third radiation signals are detect signals outputted from radiation detectors of a radiation examining apparatus used in both a second examination for irradiating the body with second radiation from a radiation source and detecting the same, and a third examination for detecting third radiation emitted from the body due to a radioactive medical agent.

7. (Currently Amended) The tomogram creating method according to claim 4, wherein the first radiation signals are [[is a]] signals outputted from radiation detectors of a radiation examining apparatus used in a first examination for irradiating the body while the body ceases breathing with first radiation from a radiation source and detecting the same.

8. (Currently Amended) The tomogram creating method according to any of claims 4 to 7, wherein the functional tomogram creating step has a step for creating data about a first functional tomogram, based on the third radiation signals, and a step for creating data about a second functional tomogram obtained by correcting the first functional tomogram data by the correction information.

9. (Currently Amended) The tomogram creating method according to any of claims 4 to 7, wherein the functional tomogram creating step includes a step for creating voxel information in the body, based on the third radiation signals, and a step for creating data about the functional tomogram, based on the voxel information corrected by the correction information.

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10-16. (Canceled).